

# C-CHARGER® AE SERIES™

## MANUAL FLOAT/EQUALIZE BATTERY CHARGERS

Safe to say, there's no other float charger built like a C-Charger from Charles Industries. Rugged #304 grade stainless steel forms the sturdy housing that withstands virtually all environmental challenges; including heat, humidity, vibration, and other stress factors. The steel cover is hinged to ease installation

Electrically, the C-Charger is a paragon of efficiency and simplicity. It uses a ferroresonant transformer with integral self-regulation. It has been intelligently designed to be completely devoid of any complicated switching circuits that could possibly burn out. There are no tubes nor delicate electronics to fail or to cause radio frequency interference (RFI). By simplifying our design, Charles has increased reliability

without sacrificing performance or usability.

Voltage output to the batteries remains at a safe and constant DC level from full load to no load, even if AC power runs as high as 132 VAC or as low as 108 VAC. This automatic voltage regulation relieves strain on internal electrical components and lengthens the lifespan of the unit. All components are designed to operate safely and continuously in an ambient temperature as high as 122° F.

AE Series Battery Chargers are available in 12, 24 and 32 Volt models and may be used with

both lead acid and nickel cadmium battery banks.



### Features

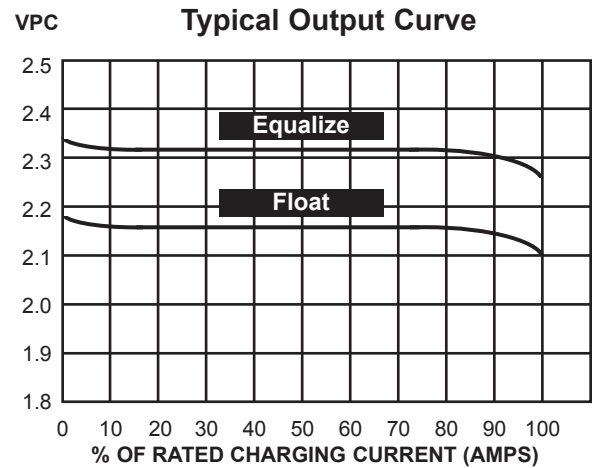
- UL Listed
- DC ammeter and voltmeter
- Float/equalize switch
- Equalize light
- AC circuit breaker
- Terminal board
- Cannot discharge battery during AC failure
- Stainless steel for corrosion resistance
- Ferroresonant transformer for reliability
- Sealed silicon diodes
- Isolated output: no direct AC to DC connection
- Isolated positive and negative: can be used as a negative voltage charger
- Two year limited warranty

# Specifications

AC Input	108-132 volts/60 Hz (220 volts/50 Hz optional)
Operating Temperature	0° to 50° C (32° to 122° F)
Storage Temperature	-20° to 60° C (-4° to 140° F)
Cooling	Convection
DC Output	
- Float	2.16 VPC for lead Acid, 1.45 VPC for nickel cadmium
- Equalize	2.33 VPC for lead Acid, 1.55 VPC for nickel cadmium
Current Limit	Approximately 135%
Enclosure	304 stainless steel hinged cover to facilitate installation

Model Number	D.C. Output		Height Inches	Width Inches	Depth Inches	Approx. Weight
	Amps	System Voltage				
<b>12 Volt</b>						
AE1206*	6	12	11	9	8.5	12
AE1210*	10	12	11	9	8.5	14
AE1220*	20	12	11	9	8.5	22
AE1230	30	12	11	9	8.5	26
<b>24 Volt</b>						
AE2406*	6	24	11	9	8.5	14
AE2410*	10	24	11	9	8.5	22
AE2420*	20	24	16.5	15	8.5	38
AE2430	30	24	16.5	15	8.5	55
<b>32 Volt</b>						
AE3210	10	32	11	9	8.5	26
AE3230	30	32	16	17	14.5	74

\*UL Listed



## Optional Accessories

- 0-24 hour equalize timer
- Automatic 24 hour equalize timer
- Low DC voltage alarm relay
- High DC voltage alarm relay
- Current failure relay
- AC power failure relay
- DC cranking disconnect relay
- AC pilot light

## Ordering Information

When ordering, please specify:

1. Model number
2. AC input: voltage & frequency
3. Battery type and number of cells
4. Ampere-hour capacity of battery
5. Recharge time desired
6. Description of load
7. Options

Contact your Charles sales representative for specific product information.



D-IND001-B01 Rev. 3



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